ABSTRACT OF THE DISCLOSURE

An improvement to inventor's prior art loudspeaker crossover filter invention is described. A substantially flat network input-impedance characteristic across the audible frequency range is provided by the addition of at least one series connected constant resistance network at the input terminals of the crossover filter system. By relaxing certain infinite slope filter parameters, more uniform acoustic polar response of the loudspeaker system is obtained. Specifically, infinite slope methods are used for the upper (higher frequency) band-edge of low-pass and band-pass filters, and optionally, for high-pass filters. Infinite slope characteristics, however, are relaxed for the lower frequency slope of band-pass filters and, optionally, for high-pass filters. In addition, the crossover network uses fewer components than infinite slope crossovers of the prior art.